

DART SERVICE INSTRUCTION

TO AMEND DRAWING D350-607 REV. F OR SUBSEQUENT APPROVED REVISION

REF CANADIAN STC: SH94-14

FAA STC: SR00213NY

EASA STC: EASA.IM.R.S.01405

THE PURPOSE OF THIS DART SERVICE INSTRUCTION (DSI), IS TO PROVIDE OPERATORS OF AS350 / 355 ROTORCRAFT EQUIPPED WITH DART D350-607-041 HELI UTILITY BASKETS WITH AN UPGRADE KIT TO REPLACE THE EXISTING LID PROP ARM WITH 2 GAS SPRINGS.

FOR OPERATORS EQUIPPED WITH D350-607-043/-045/-047 HELI UTILITY BASKETS THIS DSI WILL PROVIDE AN UPGRADE KIT TO REPLACE THE EXISTING LID PROP ARM WITH 1 GAS SPRING.

| ITEM No. | QTY -141 | QTY -143 | QTY -145 | PART NUMBER | DESCRIPTION |
|----------|----------|----------|----------|---------------|---|
| 1 | X | | | D350-607-141 | AUTOMATIC LID OPENER INSTL (FOR USE ON -041 BASKET*) |
| 2 | | X | | D350-607-143 | AUTOMATIC LID OPENER INSTL (FOR USE ON -043/-047 BASKET*) |
| 3 | | | X | D350-607-145 | AUTOMATIC LID OPENER INSTL (FOR USE ON -045 BASKET*) |
| 4 | 2 | | 1 | D3953-1 | GAS SPRING BRACKET |
| 5 | 2 | 1 | 1 | D3953-3 | GAS SPRING STUD (LID) |
| 6 | 2 | 2 | 1 | D3953-5 | GAS SPRING STUD (BASE) |
| 7 | 2 | | 1 | D3953-7 | GAS SPRING SPACER |
| 8 | 4 | 2 | 2 | D3953-9 | GAS SPRING WASHER |
| 9 | 2 | 1 | 1 | D3953-11 | GAS SPRING SPACER |
| 10 | 2 | | 1 | D3953-13 | GAS SPRING SPACER |
| 11 | | 1 | | D3953-15 | GAS SPRING BRACKET |
| 12 | | 1 | | D3953-17 | GAS SPRING SPACER |
| 13 | 2 | 1 | 1 | D3969-1 | GAS SPRING |
| 14 | 4 | 2 | 2 | AN3C11A | BOLT |
| 15 | | 2 | | AN3C15A | BOLT |
| 18 | 4 | | 2 | AN3C16A | BOLT |
| 19 | 4 | 2 | 2 | AN310-4 | CASTELLATED NUT |
| 20 | 8 | 4 | 4 | MS21043-3 | NUT |
| 21 | 4 | 2 | 2 | MS24665-212 | COTTER PIN |
| 22 | 8 | 4 | 4 | NAS1149C0332R | WASHER (OR AN960C10L) |
| 23 | 4 | 2 | 2 | NAS1149C0432R | WASHER (OR AN960C416L) |

***NOTE:** FOR CUSTOMERS WISHING TO ORDER NEW BASKETS WITH THE LID OPENER PRE-INSTALLED USE THE FOLLOWING NUMBERS:




D350-607-041 BASKET WITH AUTOMATIC LID OPENER INSTALLED = D350-607-041A

D350-607-043 BASKET WITH AUTOMATIC LID OPENER INSTALLED= D350-607-043A

D350-607-045 BASKET WITH AUTOMATIC LID OPENER INSTALLED = D350-607-045A

D350-607-047 BASKET WITH AUTOMATIC LID OPENER INSTALLED = D350-607-047A

| |
|--|
| CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01 |
| APPROVED  BY: D. SHEPHERD (DE # 02) |
| DATE: 09.11.06 CERT. NO.: SH94-14 ISSUE NO.: 4 |

| | | | |
|------------|---|---|--------------|
| B | SHT 1 P/L ITEM 22 WAS NAS1149C0332 ITEM 23 WAS NAS1149C0432H. ALL OTHER SHEETS UPDATED ACCORDINGLY. (REASON: DRAFTING ERROR) INSTALLATIONS RENAMED. | AJS | 09.11.06 |
| A | NEW ISSUE | AJS | 09.09.15 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | AJS | DART AEROSPACE LTD | |
| DRAWN | AJS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED |  | DRAWING NO. | REV. B |
| MFG. APPR. | N/A | DSI 9473 | SHEET 1 OF 8 |
| APPROVED |  | TITLE | SCALE |
| DE APPR. |  | AUTOMATIC LID OPENER INSTL | NTS |
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FOR D350-607-041 BASKETS, REPLACE THE EXISTING D2332-041 PROP ARM ASSEMBLY AS FOLLOWS:

D350-607-141 AUTOMATIC LID OPENER INSTALLATION

NOTE: ONCE THIS MODIFICATION IS COMPLETE YOU WILL NOT BE ABLE TO RE-INSTALL THE D2332-041 PROP ARM.

- 1) REMOVE THE D2332-041 PROP ARM.
- 2) GRIND FLUSH THE D2327-3 SPACER BUSHING ON BOTH ENDS OF THE BASKET AS SHOWN IN FIGURE 1 (IT IS PERMISSIBLE TO GRIND ALL 4 SPACERS FLUSH). TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4.
- 3) LOCATE THE D3953-1 GAS SPRING BRACKET AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET LID SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL A. INSTALL THE D3953-1 GAS SPRING BRACKET & D3953-13 GAS SPRING SPACER USING 2X AN3C16A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW E-E.
- 4) LOCATE THE D3953-5 GAS SPRING STUD AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET BASE SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL B. FASTEN D3953-5 IAW VIEW F-F USING 2X AN3C11A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT.
- 5) INSTALL 1X D3953-11 GAS SPRING SPACER ONTO THE D3953-5 STUD AS SHOWN IN VIEW F-F. INSTALL THE LARGE END OF THE D3969-1 GAS SPRING SPRING ONTO THE D3953-5 GAS SPRING STUD AND FASTEN IN PLACE USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW F-F. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.
- 6) INSERT THE D3953-3 GAS SPRING STUD INTO THE D3953-1 GAS SPRING BRACKET & INSERT THE D3953-7 GAS SPRING SPACER ONTO THE D3953-3 GAS SPRING AS SHOWN IN VEW E-E. RAISE THE BASKET LID AND INSTALL THE ROD END OF THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW E-E. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127 .

NOTE: THE D3953-3 GAS SPRING STUD CAN BE HELD IN PLACE WITH A $\frac{9}{16}$ OPEN END SPANNER / WRENCH.

NOTE: WITH THE LID IN THE CLOSED POSITION THE GAS SPRING SHOULD NOT BE FULLY COMPRESSED.




- 7) REPEAT STEPS 2 THROUGH 6 AT THE OTHER END OF THE BASKET.
- 8) TEST THE INSTALLATION. IF INSTALLED PROPERLY THE GAS SPRINGS SHOULD ASSIST THE BASKET USER IN BOTH OPENING AND CLOSING THE BASKET LID.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 09.11.06
CERT. NO.: SH94-14
ISSUE NO.: 4

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| DESIGN | AJS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | AJS | | |
| CHECKED |  | DRAWING NO. | REV. B |
| MFG. APPR. | N/A | DSI 9473 | SHEET 2 OF 8 |
| APPROVED |  | TITLE | SCALE |
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FOR D350-607-043/-047 BASKETS REPLACE THE EXISTING D2332-041 PROP ARM ASSEMBLY AS FOLLOWS:

D350-607-143 AUTOMATIC LID OPENER INSTALLATION

NOTE: THIS KIT MAY BE INSTALLED AT EITHER END OF THE BASKET. HOWEVER, THE PROP ARM MUST BE REMOVED IN EITHER CASE AS IT WILL INTERFERE WITH THE FUNCTION OF THE GAS SPRING.

- 1) REMOVE THE D2332-041 PROP ARM.
- 2) GRIND FLUSH THE D2327-3 SPACER BUSHING ON THE END OF THE BASKET WHERE THE LID OPENER IS BE INSTALLED AS SHOWN IN FIGURE 2 (IT IS PERMISSIBLE TO GRIND ALL 4 SPACERS FLUSH). TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4.
- 3) LOCATE THE D3953-15 GAS SPRING BRACKET AS SHOWN IN FIGURE 2. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET LID SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL C. INSTALL THE D3953-15 GAS SPRING BRACKET & D3953-17 GAS SPRING SPACER USING 2X AN3C15A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW G-G.
- 4) LOCATE THE D3953-5 GAS SPRING STUD AS SHOWN IN FIGURE 2. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET BASE SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL D. INSTALL 2X AN3C11A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW H-H. INSTALL THE ROD END OF THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW H-H. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127 .
- 5) INSERT THE D3953-3 GAS SPRING STUD INTO THE D3953-15 GAS SPRING BRACKET & INSERT THE D3953-7 GAS SPRING SPACER ONTO THE D3953-3 GAS SPRING STUD AS SHOWN IN VIEW G-G. RAISE THE BASKET LID AND INSTALL THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD AND FASTEN IN PLACE USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW G-G. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.

NOTE: THE D3953-3 GAS SPRING STUD CAN BE HELD IN PLACE WITH A $\frac{9}{16}$ OPEN END SPANNER / WRENCH.

NOTE: WITH THE LID IN THE CLOSED POSITION THE GAS SPRING SHOULD NOT BE FULLY COMPRESSED.




- 6) TEST THE INSTALLATION. IF INSTALLED PROPERLY THE GAS SPRING SHOULD ASSIST THE BASKET USER IN BOTH OPENING AND CLOSING THE BASKET LID.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 09.11.06
CERT. NO.: SH94-14
ISSUE NO.: 4

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| DRAWN | AJS | | |
| CHECKED |  | DRAWING NO. | REV. B |
| MFG. APPR. | N/A | DSI 9473 | SHEET 3 OF 8 |
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FOR D350-607-045 BASKETS REPLACE THE EXISTING D2332-041 PROP ARM ASSEMBLY AS FOLLOWS:

D350-607-145 AUTOMATIC LID OPENER INSTALLATION

NOTE: THIS KIT MAY BE INSTALLED AT EITHER END OF THE BASKET. HOWEVER, THE PROP ARM MUST BE REMOVED IN EITHER CASE AS IT WILL INTERFERE WITH THE FUNCTION OF THE GAS SPRING.

- 1) REMOVE THE D2332-041 PROP ARM.
 - 2) GRIND FLUSH THE D2327-3 SPACER BUSHING ON THE END OF THE BASKET WHERE THE LID OPENER IS BE INSTALLED AS SHOWN IN FIGURE 1 (IT IS PERMISSIBLE TO GRIND ALL 4 SPACERS FLUSH). TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4.
 - 3) LOCATE THE D3953-1 GAS SPRING BRACKET AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET LID SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL A. INSTALL THE D3953-1 GAS SPRING BRACKET & D3953-13 GAS SPRING SPACER USING 2X AN3C16A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW E-E.
 - 4) LOCATE THE D3953-5 GAS SPRING STUD AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET BASE SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL B. FASTEN D3953-5 IAW VIEW F-F USING 2X AN3C11A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT.
 - 5) INSTALL 1X D3953-11 GAS SPRING SPACER ONTO THE D3953-5 STUD AS SHOWN IN VIEW F-F. INSTALL THE LARGE END OF THE D3969-1 GAS SPRING SPRING ONTO THE D3953-5 GAS SPRING STUD AND FASTEN IN PLACE USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW F-F. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.
 - 6) INSERT THE D3953-3 GAS SPRING STUD INTO THE D3953-1 GAS SPRING BRACKET & INSERT THE D3953-7 GAS SPRING SPACER ONTO THE D3953-3 GAS SPRING AS SHOWN IN VIEW E-E. RAISE THE BASKET LID AND INSTALL THE ROD END OF THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW E-E. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127 .
- NOTE:** THE D3953-3 GAS SPRING STUD CAN BE HELD IN PLACE WITH A $\frac{9}{16}$ OPEN END SPANNER / WRENCH.




NOTE: WITH THE LID IN THE CLOSED POSITION THE GAS SPRING SHOULD NOT BE FULLY COMPRESSED.

- 7) TEST THE INSTALLATION. IF INSTALLED PROPERLY THE GAS SPRING SHOULD ASSIST THE BASKET USER IN BOTH OPENING AND CLOSING THE BASKET LID.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
D. SHEPHERD (DE # 02)

DATE: 09.11.06
CERT. NO.: SH94-14
ISSUE NO.: 4

| | | | |
|---------------|---|---|--------------|
| DESIGN | AJS | DART AEROSPACE LTD | |
| DRAWN | AJS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED |  | DRAWING NO. | REV. B |
| MFG. APPR. | N/A | DSI 9473 | SHEET 4 OF 8 |
| APPROVED |  | TITLE | SCALE |
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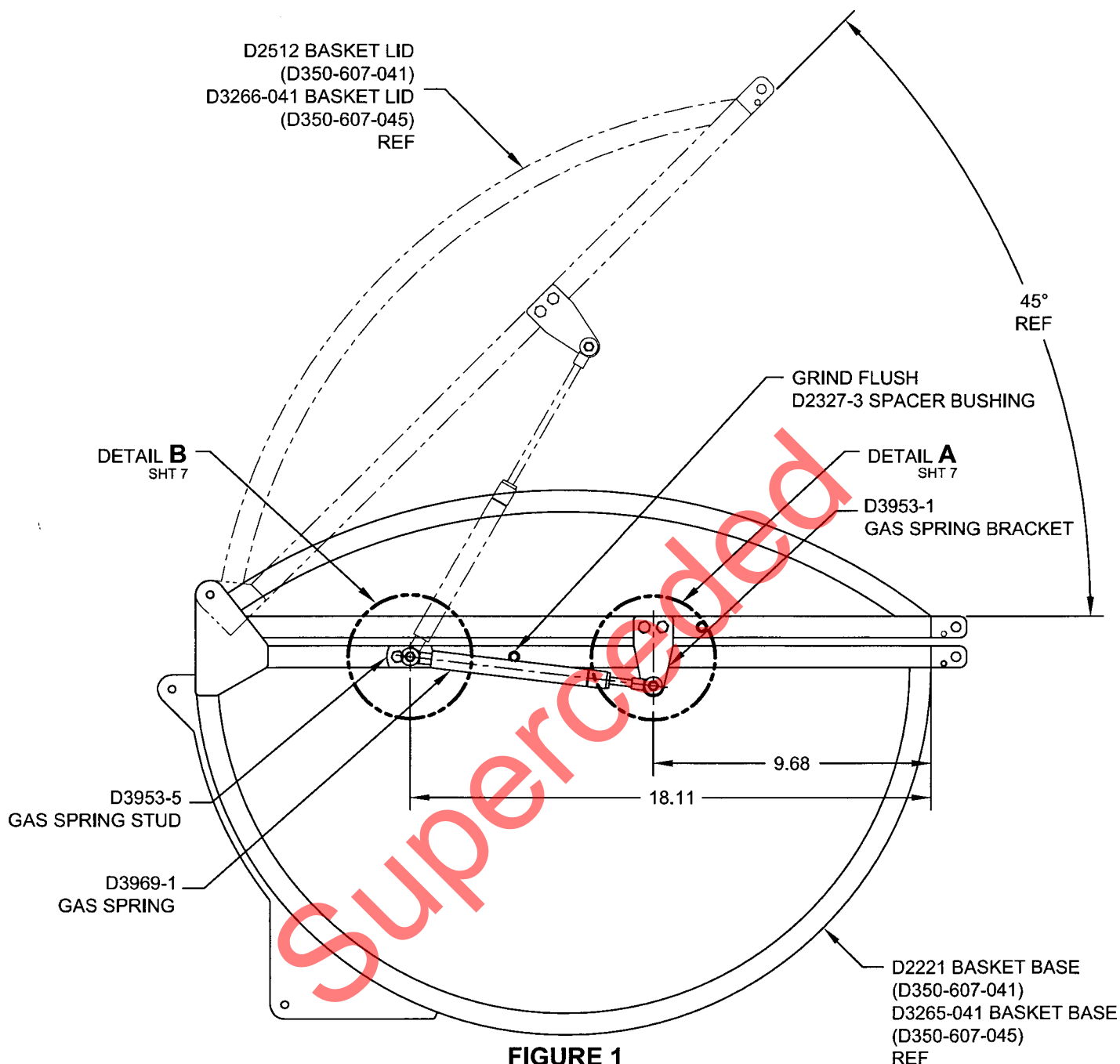


FIGURE 1

D350-607-141 AUTOMATIC LID OPENER INSTALLATION

(BOTH ENDS)

D350-607-145 AUTOMATIC LID OPENER INSTALLATION

(1 END ONLY)

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BRANCH
DAO # 01-O-01

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BY: *[Signature]*
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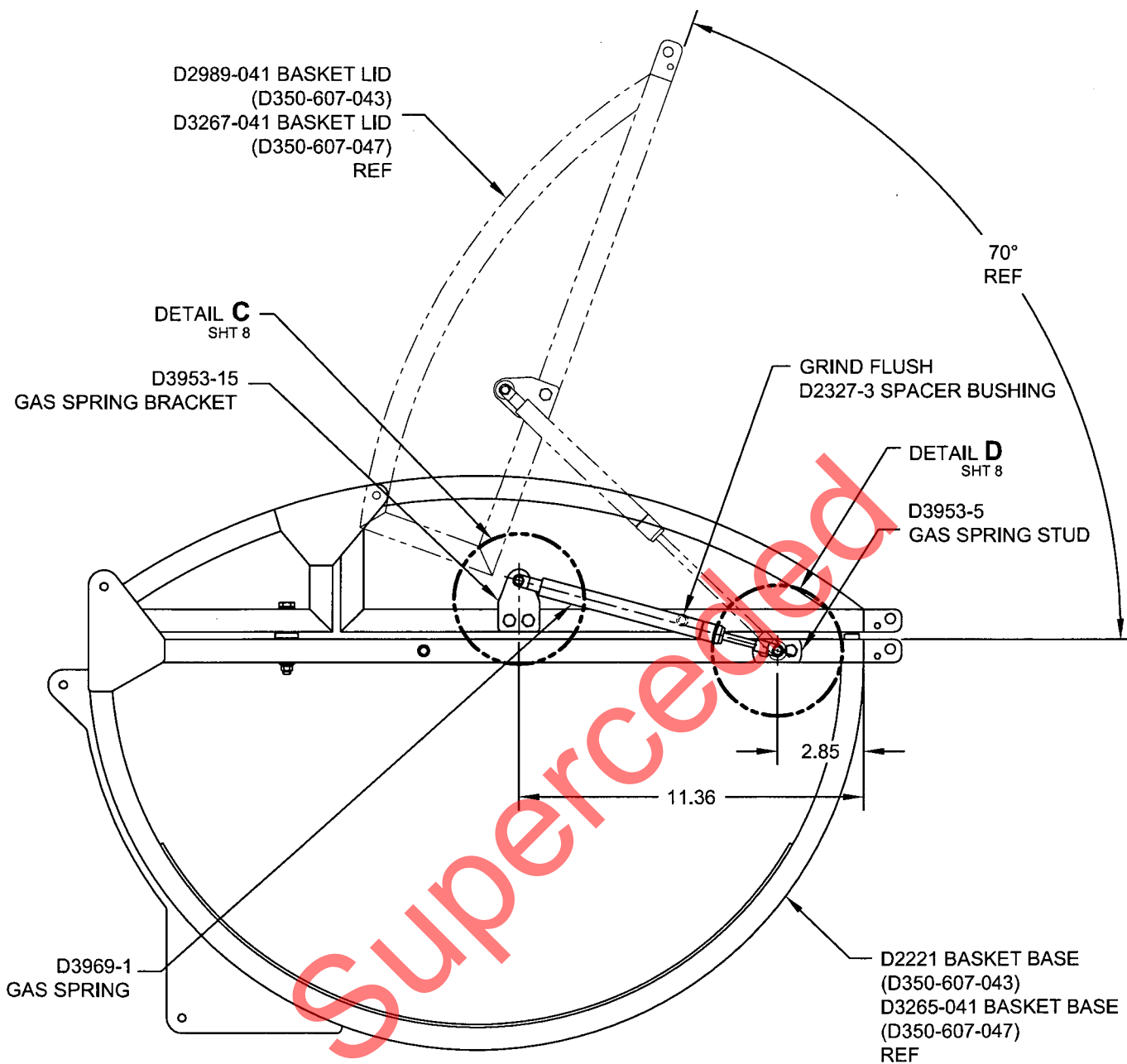


FIGURE 2
D350-607-143 AUTOMATIC LID OPENER INSTALLATION
 (1 END ONLY)

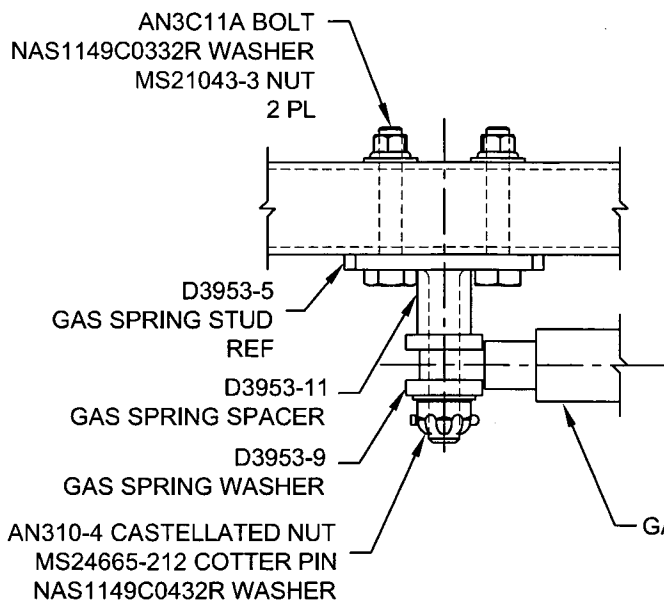
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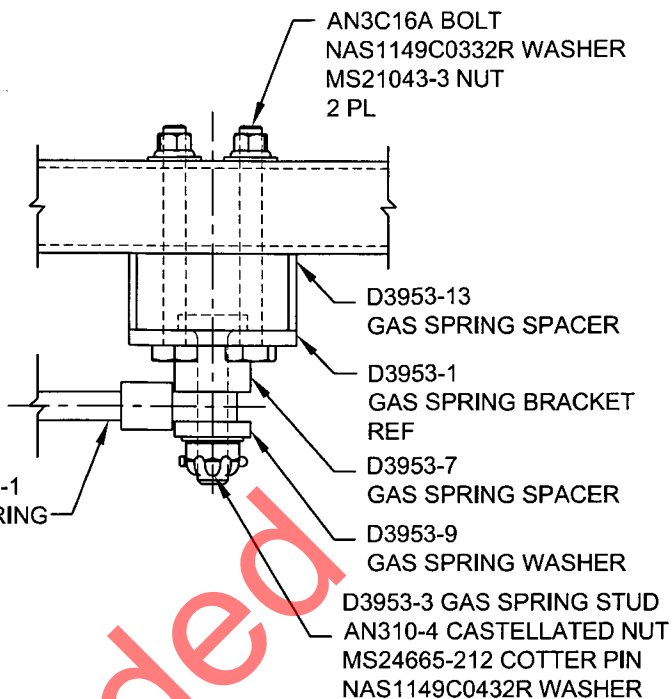
BY: *[Signature]*
 D. SHEPHERD (DE # 02)

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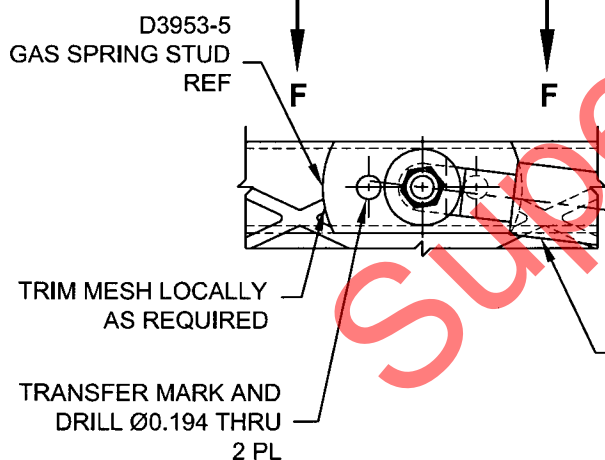
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| CHECKED | <i>[Signature]</i> | DRAWING NO. | REV. B |
| MFG. APPR. | N/A | DSI 9473 | SHEET 6 OF 8 |
| APPROVED | <i>[Signature]</i> | TITLE | SCALE |
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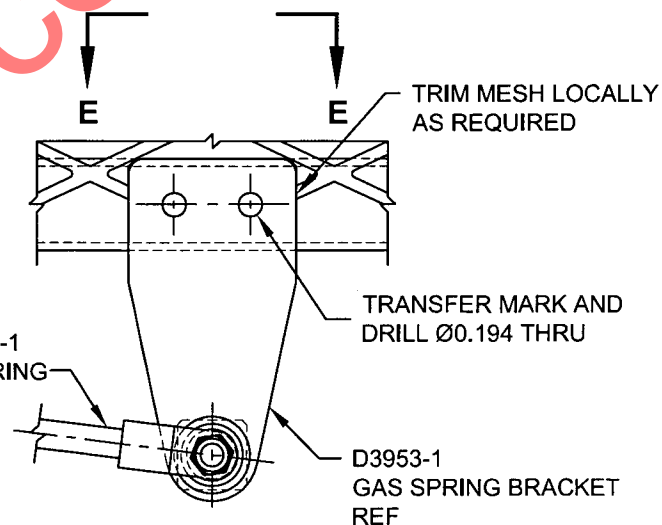
VIEW F-F



VIEW E-E



DETAIL B






DETAIL A

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

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| DESIGN | AJS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | AJS | | |
| CHECKED |  | DRAWING NO. | REV. B |
| MFG. APPR. | N/A | DSI 9473 | SHEET 7 OF 8 |
| APPROVED |  | TITLE | SCALE |
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AN3C15A BOLT
NAS1149C0332R WASHER
MS21043-3 NUT
2 PL

AN3C11A BOLT
NAS1149C0332R WASHER
MS21043-3 NUT
2 PL

D3953-17
GAS SPRING SPACER
D3953-15
GAS SPRING BRACKET
REF
D3953-7
GAS SPRING SPACER
D3953-9
GAS SPRING WASHER

D3953-3 GAS SPRING STUD
AN310-4 CASTELLATED NUT
MS24665-212 COTTER PIN
NAS1149C0432R WASHER

D3969-1
GAS SPRING
REF

D3953-5
GAS SPRING STUD
REF
D3953-11
GAS SPRING SPACER
D3953-9
GAS SPRING WASHER

AN310-4 CASTELLATED NUT
MS24665-212 COTTER PIN
NAS1149C0432R WASHER

VIEW G-G

VIEW H-H

G G

H H

D3953-15
GAS SPRING BRACKET
REF
TRANSFER MARK AND
DRILL Ø0.194 THRU

D3953-5
GAS SPRING STUD
REF

TRIM MESH LOCALLY
AS REQUIRED

TRANSFER MARK AND
DRILL Ø0.194 THRU

D3969-1
GAS SPRING
REF

DETAIL D

TRIM MESH LOCALLY
AS REQUIRED




DETAIL C

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 09.11.06
CERT. NO.: SH94-14
ISSUE NO.: 4

| | | | |
|--|---|--|--------------|
| DESIGN | AJS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | AJS | | |
| CHECKED |  | DRAWING NO. | REV. B |
| MFG. APPR. | N/A | DSI 9473 | SHEET 8 OF 8 |
| APPROVED |  | TITLE | SCALE |
| DE APPR. |  | AUTOMATIC LID OPENER INSTL | NTS |
| DATE | 09.11.06 | COPYRIGHT © 2009 BY DART AEROSPACE LTD | |
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